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THE NON-INDIGENOUS FLORA OF OHIO

By
W. A. and MRS. KELLERMAN

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The previous issues in this Botanical Series are as follows:

No. 1. Fourth State Catalogue of Ohio Plants, by W. A. Kellerman, (University Bulletins, Series 4, No. 10, April, 1899.)

No. 2. General Methods in Botanical Microtechnique, by John H. Schaffner, (University Bulletins, Series 4, No. 13, June, 1891.)

No. 3. The Nutation of Helianthus, by John H. Schaffner, (University Bulletin, Series 4, No. 26, April, 1900.)

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THE NON-INDIGENOUS FLORA OF OHIO.*

BY W. A. AND MRS. KELLERMAN.

Floras change with the changing environment. These changes when due to geologic or climatic causes occur slowly and are not usually detected until after a considerable lapse of time. On the other hand changes in the general character of the flora due to plant introductions from more or less remote districts often become pronounced in a short time. If the introduced plants prove to be very vigorous, in their new environment, and are to a greater or lesser degree able to displace native species, multiplying at an enormous rate as is usually the case, the change may be detected at once.

That the numerous introduced plants—one-fifth of the total number of species for the State—have produced a marked change in the Ohio flora is evident nearly everywhere, but particularly noticeable in cultivated areas. It seems therefore desirable to place on record our present knowledge of the non-indigenous plants found in the State, to note their character, relative abundance and distribution of the several species, for present convenience and future comparison.

NUMBER OF SPECIES.

The number of species belonging to the flora as reported in the Fourth State Catalogue of Ohio Plants, published in 1899, is 2,025. But many additions have been made to the list during the year just elapsed, and the present number known should perhaps be recorded as 2,060. Of this list 430 are not indigenous to Ohio. This is 21.36 percent of the entire listed flora.

WHENCE INTRODUCED INTO THE STATE.

An inventory of the non-indigenous plants of Ohio shows that 326 species have come to us from Europe; 30 from Asia; 2 from Africa; 46 from Southern and Western United States;

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and 21 from Tropical or South America. There are 5 species whose native region is not now positively known.

When expressed in percentages the numbers are as follows: from Europe, 75.81 percent; from Asia, 6.99 percent; from Africa, 0.47 percent; from the United States, 10.70 percent, and from Tropical and South America, 4.81 percent.

Comparing the Old World species with those from parts of the American continent we find the numbers to be 358 and 67 respectively. Therefore 83.25 percent of the introduced species have come from the Eastern Hemisphere and 15.58 from America.

DURATION OF LIFE.

Of the non-indigenous species 204 are annual species; 43 biennials; and 195 perennials. Stated in percentages of the total number they are as follows; annuals, 47.44 percent; biennials, 10 percent; and perennials, 45.35 percent. The species which are both annual and biennial, or biennial and perennial, are counted twice, being included in two of the groups.

WAIFS, ESCAPED, AND THOROUGHLY NATURALIZED.

A large number of the non-indigenous species are mere waifs and doubtless in many cases can not be said to belong really to our flora. On the other hand, some of them will undoubtedly become abundant and thoroughly incorporate themselves in our flora in the course of time. There are 51 plants in our list noted as waifs.

A very much larger number has been found in a few or several localities that have escaped, or seem to be now escaping, permanently from cultivation. Very many plants that have been introduced for ornament or use belong in this category. Of this class we have noted 167 species.

Still more than in the latter class, but not so many as the total of waifs and occasionally-escaped, are the species recorded in the tabulation as thoroughly naturalized. They are not only common and often abundant but also so thoroughly established as to warrant their place in our flora as permanent species. They are as likely to remain indefinitely in our region as the

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indigenous species. The number of this class enumerated is 212.

Expressed in percentages of the total number of introduced species they are as follows: waifs, 11.86 percent; occasionally escaped, 38.84 percent; and thoroughly naturalized, 49.30 percent.

FAMILIES REPRESENTED.

The following list shows the families represented by the non-indigenous plants of Ohio, and the numbers following the names indicate the number of species of each:

1.	Amaranthaceæ	5
2.	Aizoaceæ	1
3.	Apocynaceæ	2
4.	Berberidaceæ	1
5.	Bignoniaceæ	2
6.	Borraginaceæ	11
7.	Cactaceæ	1
8.	Campanulaceæ	1
9.	Capparidaceæ	1
10.	Caprifoliaceæ	4
11.	Caryophyllaceæ	23
12.	Chenopodiaceæ	11
13.	Compositæ	88
14.	Convolvulaceæ	8
15.	Crassulaceæ	2
16.	Cruciferæ	27
17.	Cucurbitaceæ	6
18.	Cyperaceæ	1
19.	Dipsacaceæ	1
20.	Elatinaceæ	1
21.	Euphorbiaceæ	7
22.	Fumariaceæ	1
23.	Geraniaceæ	5
24.	Gramineæ	46
25.	Hypericaceæ	1
26.	Labiatæ	24
27.	Leguminosæ	19
28.	Liliaceæ	7
29.	Linaceæ	1
30.	Malvaceæ	9
31.	Martyniaceæ	1
32.	Nyctaginaceæ	2
33.	Oleaceæ	2
34.	Oxalidaceæ	1
35.	Onagraceæ	3
36.	Papaveraceæ	5
37.	Plantaginaceæ	4
38.	Polygonaceæ	14
39.	Portulacaceæ	1
40.	Primulaceæ	2
41.	Ranunculaceæ	9
42.	Resedaceæ	3
43.	Rhamnaceæ	1
44.	Rosaceæ	15
45.	Rubiaceæ	3
46.	Salicaceæ	8
47.	Saxifragaceæ	4
48.	Scrophulariaceæ	14
49.	Simarubaceæ	1
50.	Solanaceæ	9
51.	Umbelliferæ	12
52.	Urticaceæ	5
53.	Valerianaceæ	1
54.	Verbenaceæ	1
55.	Violaceæ	1

SHRUBS AND TREES.

The woody plants number 36 species. The following list gives the names and shows that 17 are shrubs and that 19 are trees.

1. Ailanthus glandulosa (Ailanthus); tree.
2. Broussonetia papyrifera (Paper mulberry); tree.
3. Crataegus oxycantha (Hawthorn); shrub.
4. Hypericum prolificum (St. John's-wort); shrub.
5. Ligustrum vulgare (Privet); shrub.

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6. Lycium vulgare (Matrimony-vine); shrub.
7. Lonicera caprifolium (Honeysuckle); shrub.
8. Lonicera japonica (Honeysuckle); shrub.
9. Lonicera tartarica (Honeysuckle); shrub.
10. Lonicera xylostema (Honeysuckle); shrub.
11. Morus alba (White Mulberry); tree.
12. Philadelphus coronaria (Mock Orange); shrub.
13. Philadelphus inodorus (Mock Orange); shrub.
14. Populus alba (Silver Poplar); tree.
15. Populus dilatata (Lombardy Poplar); tree.
16. Prunus angustifolia (Hog Plum); tree.
17. Prunus avium (Sweet Cherry); tree.
18. Prunus cerasus (Sour Cherry); tree.
19. Rhamnus cathartica (Buckthorn); shrub.
20. Robinia hispida (Rose Acacia); shrub.
21. Robinia pseudacacia (Locust-tree); tree.
22. Robinia viscosa (Clammy Locust); tree.
23. Rosa canina (Dog Rose); shrub.
24. Rosa cinnamomea (Cinnamon Rose); shrub.
25. Rosa rubiginosa (Sweet Brier); shrub.
26. Salix alba (White Willow); tree.
27. Salix alba coerulea (Blue Willow); tree.
28. Salix alba vitellina (Golden Willow); tree.
29. Salix babylonica (Weeping Willow); tree.
30. Salix fragilis (Crack Willow); tree.
31. Salix purpurea (Purple Willow); tree.
32. Spiraea corymbosa (Spiraea); shrub.
33. Spiraea prunifolia (Spiraea); shrub.
34. Spiraea sorbifolia (Spiraea); shrub.
35. Syringa vulgaris (Lilac); shrub.
36. Toxylon pomiferum (Osage Orange); tree.

GRASSES.

From the character of the representatives the family Gramineae is of special interest. Many of them are useful plants, others are among the worst weeds, and still others are indifferent or so scarce as to be of little import in our flora. The following list contains the species with indication of their reputation:

1. Agropyron caninum (Wheat Grass)—indifferent.
2. Agropyron repens (Couch-grass)—weed.
3. Agrostis alba (Bent Grass)—useful.
4. Alopecurus geniculatus (Marsh Foxtail)—indifferent.
5. Alopecurus pratensis (Meadow Foxtail)—indifferent.
6. Anthoxanthum odoratum (Vernal Grass)—useful.
7. Arrhenatherum elatius (Oat Grass)—indifferent.
8. Avena fatua (Wild Oat)—indifferent.
9. Avena sativa (Common Oats)—useful.
10. Bromus hederaceus (Soft Chess)—indifferent.
11. Bromus brizaeformis (Quake Brome)—indifferent.
12. Bromus inermis (Beardless Brome)—useful.

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13. Bromus secalinus (Chess)—weed.
14. Bromus sterilis (Barren Brome)—indifferent.
15. Bromus tectorum (Downy Brome)—indifferent.
16. Capriolon dactylon (Bermuda Grass)—indifferent.
17. Dactylis glomerata (Orchard Grass)—useful.
18. Eleusine indica (Yard Grass)—weed.
19. Eragrostis eragrostis (Low Eragrostis)—indifferent.
20. Eragrostis major (Stinking Grass)—weed.
21. Eragrostis pilosa (Tufted Eragrostis)—indifferent.
22. Festuca elatior (Meadow Fescue)—useful.
23. Festuca ovina (Sheep Fescue)—useful.
24. Festuca ovina duriuscula—useful.
25. Holcus lanatus (Velvet Grass)—useful.
26. Hordeum jubatum (Squirrel-tail)—weed.
27. Hordeum vulgare (Barley)—useful.
28. Ixophorus glaucus (Fox-tail)—weed.
29. Ixophorus italicus (Millet)—useful.
30. Ixophorus italicus germanica—useful.
31. Ixophorus verticillatus (Fox-tail)—weed.
32. Ixophorus viridis (Fox-tail)—weed.
33. Lolium perenne (Darnel)—weed.
34. Lolium temulentum (Darnel)—indifferent.
35. Panicum crus-galli (Barnyard-grass)—weed.
36. Phalaris canariensis (Canary Grass)—indifferent.
37. Phleum pratense (Timothy)—useful.
38. Poa annua (Annual June-grass)—indifferent.
39. Poa compressa (Wire Grass)—weed.
40. Poa trivialis (June Grass)—indifferent.
41. Secale cereale (Rye)—useful.
42. Sorghum halapense (Johnson Grass)—useful.
43. Sorghum vulgare (Sorghum)—useful.
44. Syntherisma sanguinale (Crab Grass)—weed.
45. Syntherisma linearis (Crab Grass)—indifferent.
46. Triticum vulgare (Wheat)—useful.
47. Zea mays (Maize)—useful.

WORST WEEDS.

It is true that very many of our bad weeds and some of the worst ones are included in the introduced species. The following list contains the more prominent ones; the life duration and source of each are noted.

1. Abutilon abutilon (Velvet Leaf), annual, Old World.
2. Achillea millefolium (Yarrow), perennial, Old World.
3. Agropyron repens (Couch-grass), perennial, Old World.
4. Agrostemma githago (Corn-cockle), annual, Old World.
5. Amaranthus blitoides (Amaranth), annual, American.
6. Amaranthus graecizans (Amaranth), annual, Old World.
7. Amaranthus crispus and retroflexus, annual, American.
8. Ambrosia psilostachya (Ragweed), perennial, American.
9. Anthemis cotula (Dog Fennel), annual, Old World.
10. Arctium majus (Burdock), perennial, Old World.
11. Brassica campestris (Mustard) annual, Old World.
12. Bromus secalinus (Chess), annual, Old World.
13. Carduus arvensis (Canada Thistle), perennial, Old World.

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14. Carduus lanceolatus (Thistle), biennial, Old World.
15. Chenopodium album (Lamb's Quarter), annual, Old World.
16. Chrysanthemum leucanthemum (Ox-eye Daisy), perennial, Old World.
17. Datura stramonium (Jimson-weed), annual, Old World.
18. Datura tatula (Jimson-weed), annual, American.
19. Daucus carota (Wild Carrot), biennial, Old World.
20. Dipsacus sylvestris (Teasel), biennial, Old World.
21. Dysodia papposa (Fetid Marigold), annual, American.
22. Echium vulgare (Blueweed), biennial, Old World.
23. Hieracium aurantiacum (Hawkweed), annual, Old World.
24. Inula helenium (Elecampane), perennial, Old World.
25. Ixophorus glaucus (Foxtail), annual, Old World.
26. Ixophorus viridis (Foxtail), annual, Old World.
27. Lactuca scariola (Prickly Lettuce), annual, Old World.
28. Lepidium campestre (Pepper-grass), annual, Old World.
29. Linaria linaria (Butter-and-Eggs), perennial, Old World.
30. Malva rotundifolia (Mallow), perennial, Old World.
31. Nepeta cataria (Catnip), perennial, Old World.
32. Panicum crus-galli (Barnyard Grass), annual, Old World.
33. Pastinaca sativa (Parsnip), biennial, Old World.
34. Plantago aristata (Plantain), annual, American.
35. Plantago lanceolata (Plantain), perennial, Old World.
36. Polygonum convolvulus (Bindweed), annual, Old World.
37. Portulaca oleracea (Purslane), annual, Old World.
38. Quamoclit coccinea (Morning Glory), annual, American.
39. Ranunculus acris (Buttercups), annual and perennial, Old World.
40. Rumex acetocella (Sorrel), perennial, Old World.
41. Rumex crispus (Dock), perennial, Old World.
42. Rumex obtusifolius (Dock), perennial, Old World.
43. Saponaria officinalis (Bouncing Bet), perennial, Old World.
44. Solanum rostratum (Buffalo-bur), annual, America.
45. Syntherisma sanguinalis (Crab-grass), annual, Old World.
46. Taraxacum taraxacum (Dandelion), perennial, Old World.
47. Verbascum blattaria (Moth Mullein), biennial, Old World.
48. Verbascum thapsus (Mullein), biennial, Old World.
49. Xanthium strumarium (Cocklebur), annual, Old World.

NATIVE WEEDS.

It would be erroneous to suspose that all of our bad weeds are of old world origin. In fact some of the bad ones, even some of the worst ones belong to some part of America, as will be seen on consulting the preceding paragraph. A list is here appended of species indigenous to Ohio which shows that all the bad or worst weeds have not been introduced but have always been with us.

1. Ambrosia artemesiaefolia (Ragweed)
2. Ambrosia trifida (Horseweed)
3. Asclepias incarnata (Milkweed)
4. Asclepias syriaca (Milkweed)
5. Asclepias tuberosa (Butterfly weed)
6. Atriplex hastata (Orache)

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7. Atriplex patula (Orache)
8. Aster ericoides (Aster)
9. Bidens frondosa (Spanish Needles)
10, Bidens bipinnata (Spanish Needles)
11. Bromus ciliatus (Native Chess)
12. Cenchrus tribuloides (Bur Grass)
13. Cicuta maculata (Spotted Cowbane)
14. Convolvulus scandens (Bindweed)
15. Convolvulus repens (Bindweed)
16. Erigeron annuus (White top)
17. Erigeron ramosus (White top)
18. Kalmia latifolia (Laurel)
19. Lactuca canadensis (Wild Lettuce)
20. Meibomia canescens (Tick Trefoil)
21. Plantago rugelii (Common Plantain)
22. Panicum capillare (Old Witch Grass)
23. Polygonum pennsylvanicus (Knotweed)
24. Rhus copallina (Dwarf Sumach)
25. Rhus glabra (Smooth Sumach)
26. Rhus radicans (Poison Ivy)
27. Rhus vernix (Poison Sumach)
28. Rosa humilis (Wild Rose)
29. Rubus canadensis (High Blackberry)
30. Rubus villosus (Dewberry)
31. Sambucus canadensis (Elder)
32. Solanum carolinense (Horse Nettle)
33. Solidago canadensis (Goldenrod)
34. Solidago nemoralis (Goldenrod)
35. Stipa spartea (Porcupine Grass)
36. Urtica gracilis (Nettle)
37. Verbena stricta (Hoary Vervain)
38. Verbena urticaefolia (White Vervain)
39. Vernonia gigantea (Ironweed)
40. Xanthium canadense (Cocklebur)

AMERICAN AND EASTERN INTRODUCTIONS COMPARED.

The greater the intercourse between countries—and especially the longer it is continued—the greater will be the plant introductions. Many species are purposely introduced for ornament or use, and in some cases they escape and in time become a permanent part of the flora of the region. If commerce is carried on extensively, or even travel only takes place, between countries, many plants will incidentally find their entrance; they may at first be mere waifs or ballast plants, or plants from occasional seeds carried in packing or food materials. The length of time then during which introductions may have taken place is an important factor.

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We may say that since 1620, or for the past 28 decades, fair facilities have been offered for plant introduction from the Old World.

When the forty-niners began to return from the Far West—but especially since the Pacific Railroad was completed and travel and transportation have become extensive, perhaps equal facilities (or an approximation thereto) have been offered for plant introduction from the western and southwestern part of our continent. We may say, perhaps, that this period should be recorded (since 1850) as 5 decades.

The total number of species of our non-indigenous flora whose source is given as the Eastern Hemisphere is 356; those whose source is American number 67.

The ratio of 356 species to 67 species (approximately 5⅓ to 1) is less than the ratio of 28 decades to 5 decades (approximately 5½ to 1). In other words, when we consider the proportional length of time during which the plant introductions into our region have taken place, we find that the larger number (greater proportion) is from America.

SOURCE OF DATA AND ACKNOWLEDGEMENTS.

The specimens in the Ohio State Herbarium—now numbering over thirteen thousand mounted sheets—have furnished almost the complete data for the entire list of the non-indigenous species. Therefore, to the numerous contributors to this Collection acknowledgements are here gratefully made. The extent to which the several persons have assisted in the Herbarium may be seen by referring to the Fourth State Catalogue of Ohio Plants issued in 1899, and the First Annual Supplement to the same which will be printed shortly.

But a small number of the plants named in our list are not represented in the State Herbarium. For a few of these we thank E. L. Moseley of Sandusky and A. D. Selby of Wooster; but special obligation to L. D. Stair of Cleveland is acknowledged, whose article on the Railroad Weeds read before the Ohio State Academy of Science contained a long list that was kindly placed in our hands. This extended our knowledge of the distribution of many interesting species and contained the

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names of a few plants not already recorded. Thanks are also due W. H. Aiken of Cincinnati, who kindly consulted the Lloyd Library and assisted in noting the Old World distribution of many species. Some inadvertant inaccuracies were detected by A. D. Selby who kindly looked over the Tabulation following before it was placed in the printers' hands.

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Tabulation of Non-Indigenous Flora.

SCIENTIFIC AND COMMON NAMES.	Source; i. e. whence Introduced into the United States.	A-Annual; B-Biennial; P-Perennial.	Waif.	Occasionally Escaped.	Thoroughly Naturalized.	One or Few Localities.	Not Rare; Infrequent	More or Less Common.	Europe.	Asia.	Africa.	Australia.
1. Abutilon abutilon (Velvet-leaf)	Asia	A	....	....	1	....	....	1	....	1	....	1
2. Achillea mil'efolium (Yarrow)	Europe	P	....	....	1	....	....	1	1	1	....	....
3. Aegopodium podograria (Gout-weed)	Europe	P	1	....	....	1	....	....	1	1	....	....
4. Aesculus hippocastanum (Horse Chestnut)	Asia	P	....	1	....	1	....	....	1	1	....	....
5 Aethusa cynapium (Fool's Parsley)	Europe	A	1	....	....	1	....	....	1	1	....	....
6. Agropyron caninum (Wheat-grass)	Europe	P	....	1	....	1	....	....	1	1	....	....
7. Agropyron repens (Couch-grass)	Europe	P	....	....	1	....	....	1	1	1	1	....
8. Agrostemma githago (Corn Cockle)	Europe	A	....	....	1	....	....	1	1	....	....	1
9. Agrostis alba (Bent-grass)	Europe	P	....	....	1	.	..	1	1	1	....	....
10. Ailanthus glandulosa (Ailanthus)	China	*P	....	....	1	....	....	1	....	1	1	1
11. Ajuga reptans (Ajuga)	Europe	P	1	....	....	1	....	....	1	1	....	....
12. Alliaria alliaria (Hedge Garlic)	Europe	P	1	....	..	1	....	....	1	1	....	....
13. Allionia nyctagineus (Umbrella-wort)	W. U. S.	P	....	1	....	1	....	....	....	....	....	....
14. Allionia hirsuta (Umbrella-wort)	W. U. S.	P	1	....	....	1	....	....	....	....	....	....
15. Allium cepa (Onion)	Asia	P	....	1	....	....	1	....	1	1	....	....
16. Allium veneale (Onion)	Europe	B	....	1	....	....	1	....	1	....	....	....
17. Alopecurus geniculatus (Marsh Foxtail)	Europe	P	....	....	1	..	1	....	1	1	1	1
18. Alopecurus pratensis (Meadow Foxtail)	Europe	P		....	1	....	1	....	1	1	1	....
19. Alsine graminea (Chick-weed)	Europe	A	1	....	....	1	....	....	1	1	....	....
20. Alsine media (Chick weed)	Europe	A	....	....	1	....	....	1	1	1	1	1
21. Althaea rosea (Hollyhock)	Europe	P	....	1	....	1	....	....	1	1	....	1
22. Alyssum alyssoides (Alyssum)	Europe	A	1	....	....	1	....	....	1	..	....	....
23. Amaranthus blitoides (Amaranth)	W. U. S.	A	....	....	1	....	...	1	....	1	....	....
24. Amaranthus crispus (Amaranth)	Unknown	A	....	1	....	1	....	..	1	....	....	....

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25.	Amaranthus graecizans (Amaranth)	Asia	A	....	....	1	....	....	1	....	1	1	....
26.	Amaranthus hybridus (Amaranth)	Trop. Am.	A	....	....	1	....	....	1	....	1	....	....
27.	Amaranthus retroflexus (Amaranth)	Trop. Am.	A	....	....	1	....	....	1	1	....	....	....
28.	Amaranthus spinosus (Amaranth)	S. U. S.	A	....	....	1	....	....	1	....	1	1	1
29.	Ambrosia psilostachya (Western Ragweed)	W. U. S.	P	1	....	....	1	....	....	....	....	....	....
30.	Amphiachyris dracunculoides	W. U. S.	A	1	....	....	1	....	....	....	....	....	....
31.	Amygdalus persica (Peach)	Asia	P	....	....	1	....	....	1	1	1	....	1
32.	Anagallis arvensis (Pimpernel)	Europe	A	....	1	....	....	....	1	1	1	....	1
33.	Anthemis arvensis (Corn Chamomile)	Europe	A	....	....	1	....	....	1	1	1	....	....
34.	Anthemis cotula (Dog Fennel)	Europe	A	....	....	1	....	....	1	1	1	1	1
35.	Anthemis nobilis (Chamomile)	Europe	P	1	....	....	1	....	....	1	1	....	..
36.	Anthemis tinctoria (Chamomile)	Europe	P	1	....	....	1	....	....	1	1	....	....
37.	Anthozanthum odoratum (Vernal Grass)	Europe	P	....	....	1	....	1	....	1	1	1	1
38.	Anthricus cerefolium (Chervil)	Europe	P	....	1	....	1	....	....	1	1	....	....
39.	Antirrhinum majus (Snap-dragon)	Europe	P	....	1	....	....	1	....	1	1	....	....
40.	Apium petroselinum (Garden Parsley)	Europe	P	....	1	....	1	....	....	1	....	....	....
41.	Aquilegia vulgaris (Columbine)	Europe	P	....	1		....	1	....	1	1	....	....
42.	Arctium lappa (Burdock)	Europe	P	....	....	1	....	....	1	1	1	....	....
43.	Arctium majus (Burdock)	Europe	P	....	1	....	....	1	....	1	1	....	....
44.	Arctium minus (Burdock)	Europe	P	....	1	....	....	1	....	1	1	....	....
45.	Arenaria serpyllifolia (Sandwort)	Europe	A	....		1	....	....	1	1	1	....	1
46.	Argemone mexicana (Mexican Poppy)	Trop. Am.	*A	....	1	....	....	1	....	....	1	1	1
47.	Arrhenatherum elatius (Oat-grass)	Europe	P		1	....	....	1	....	1	1	1	....
48.	Artemisia abrotanum (Wormwood)	Europe	P	1	....	....	1	....	....	1	....	....	....
49.	Artemisia absinthium (Wormwood)	Europe	P	1	....	....	1	....	....	1	1	....	....
50.	Artemisia annua (Wormwood)	Asia	A	....	1	....	....	1	....	1	1	....	....
51.	Artemisia biennis (Wormwood)	W. U. S.	†B	....	....	1	....	....	1	....	1	....	....
52.	Artemisia canadensis (Wormwood)	W. U. S.	†B	....	1	....	1	....	....	....	..	....	....
53.	Artemisia pontica (Wormwood)	Europe	P	1	....	....	1	....	..	1	....	....	....
54.	Artemisia vulgaris (Mugwort)	Europe	P	....	1	....	1	....	.	1	1	....	....
56.	Asparagus officinalis (Asparagus)	Europe	P	....	....	1	....	....	1	1	1	1	....
55.	Atriplex argentea (Silvery Orache)	W. U. S.	A	1	....	....	1	....	....	....	....	....	....
57.	Avena fatua (Wild Oat)	Europe	A	....	1	....	1	....	....	1	1	1	1
58.	Avena sativa (Oats)	Europe	A	....	1	....	....	....	1	1	1	1	1
59.	Barbarea barbarea (Winter Cress)	Europe	B	....	....	1		....	1	1	..	....	....
60.	Barbarea stricta (Erect Winter Cress)	Europe	B	....	1	....	1	....	....	1	1	....	....

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61.	Bellis perennis (English Daisy)	Europe	A	....	1	....	....	1	....	1	1	....	1
62.	Berberis vulgaris (Barberry)	Europe	P	....	1	....	....	1	....	1	1	....	....
63.	Borago officinalis (Borage)	Europe	A	....	1	....	1	....	....	1	....	....	....
64.	Brassica arvensis (Charlock)	Europe	A	....	....	1	....	....	1	1	1	1	1
65.	Brassica campestris (Turnip)	Europe	A	....	1	....	1	....	....	1	1	....	1
66.	Brassica juncea (Indian Mustard)	Europe	A	....	1	....	1	....	....	1	....	....	....
67.	Brassica napus (Rape)	Europe	B	....	1	....	1	....	....	1	....	....	....
68.	Brassica nigra (Black Mustard)	Europe	A	....	....	1	....	....	1	1	1	1	....
69.	Bromus brizaeformis (Brome Grass)	Europe	B	....	1	....	1	....	....	1	1	....	....
70.	Bromus hordaceus (Chess)	Europe	†A	....	1	....	....	1	....	1	....	....	1
71.	Bromus inermis (Brome Grass)	Europe	P	....	1	....	1	....	....	1	1	....	....
72.	Bromus racemosus (Chess)	Europe	†A	....	....	1	....	....	1	1	1	....	....
73.	Bromus secalinus (Chess)	Europe	A	....	....	1	....	....	1	1	1	1	....
74.	Bromus sterilis (Chess)	Europe	†A	....	....	1	....	1	....	1	1	1	1
75.	Bromus tectorum (Chess)	Europe	A	....	....	1	....	1	....	1	1	1	....
76.	Broussonetia papyrifera (Paper Mulberry)	Japan	P	....	1	....	1	....	....	....	1	....	....
77.	Bupleurum rotundifolium (Thorough-wax)	Europe	A	....	1	....	1	....	....	1	1	1	1
78.	Bursa bursa-pastoris (Shepherd's-purse)	Europe	A	....	....	1	....	....	1	1	1	1	1
79.	Calendula officinalis (Marigold)	Europe	A	....	1	....	1	....	....	1	....	....	....
80.	Callirrhoe involucrata	W. U. S.	P	1	....	....	1	....	....	....	....	....	....
81.	Callistephus chinensis (China Aster)	Asia	A	....	1	....	1	....	....	1	1	....	....
82.	Campanula rapunculoides (Bellflower)	Europe	P	....	1	....	....	1	....	1	1	....	....
83.	Camelina sativa (False Flax)	Europe	A	....	....	1	....	....	1	1	1	....	....
84.	Cannabis sativa (Hemp)	Europe	A	....	....	1	....	....	1	1	1	....	1

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85.	**Capriola dactylon (Bermuda Grass)**	Europe	P	....	1	....	1	....	....	1	1	....	1
86.	**Cardiospermum halicacabum (Balloon-vine)**	Trop. Am	A	1	..	....	1	....	....	1	1	....	....
87.	**Carduus arvensis (Canada Thistle)**	Europe	P	....	....	1	....	....	1	1	1	....	1
88.	Carduus lanceolatus (Common Thistle)	Europe	B	....	....	1	....	....	1	1	1	....	1
89.	Carex muricata (Sedge)	Europe	P	....	1	....	1		....	1	1	1	....
90.	Carum carui (Caraway)	Europe	B	..	....	1	....	....	1	1	1	1	....
91.	Catalpa catalpa (Catalpa)	S. W. U. S.	P	....	....	1	....	....	1	....	....	....	....
92.	Catalpa speciosa (Western Catalpa)	S. W. U. S.	P	....	....	1	....	....	1	....		....	....
93.	Caucalis anthriscus (Hedge Parsley)	Europe	A	....	1	....	1	....	....	1	1	....	....
94.	Centaurea benedicta (Blessed Thistle)	Europe	A	....	1	....	1	....	....	1	1	....	....
95.	Centaurea cyanus (Bluebottle)	Europe	A	....	1	....	....	1	....	1	1	....	....
96.	Centaurea jacea (Knapweed)	Europe	P	....	1	....	1	....	....	1	1	....	....
97.	Centaurea nigra (Knapweed)	Europe	P	....	1	....	1	....	....	1	1	....	....
98.	Cerastium viscosum (Chickweed)	Europe	A	....	....	1	....	....	1	1	1	....	1
99.	Cerastium vulgatum (Chickweed)	Europe	P	....	....	1	....	....	1	1	1	1	1
100.	Chelidonium majus (Celendine)	Europe	P	....	....	1	....	....	1	1	1	....	....
101.	Chenopodium album (Lamb's Quarter)	Europe	A	....	....	1	....	....	1	1	1	1	1
102.	Chenopodium ambrosioides (Goosefoot)	Trop. Am.	A	....	....	1	....	....	1	1	1	1	1
103.	Chenopodium anthelminticum (Goosefoot)	Europe	A	....	....	1	....	1	....	1	....	....	....
104.	Chenopodium botrys (Goosefoot)	Europe	A	....	....	1	....	1	....	1	1	1	....
105.	Chenopodium glaucum (Goosefoot)	Europe	A	....	....	1	....	1	....	1	1	....	1
106.	Chenopodium murale (Goosefoot)	Europe	A	....	1	....	1	....	....	1	1	1	1
107.	Chenopodium polyspermum (Goosefoot)	Europe	A	....	1	....	1	....	....	1	1	....	....
108.	Chenopodium urbicum (Goosefoot)	Europe	A	....	1	....	....	1	....	1	1	....	....
109.	Chrysanthemum balsamita (Costmary)	Europe	P	....	1	....	....	1	....	1	1	....	.
110.	Chrysanthemum leucanthemum (Oxeye Daisy)	Europe	P	....		1	....	....	1	1	1	....	....
111.	Chrysanthemum parthenium (Feverfew)	Europe	P	....	1	....	....	1	....	1	....	....	....
112.	Cichorium intybus (Chicory)	Europe	P	....	....	1	....	....	1	1	1	....	1
113.	Citrullus citrullus (Watermelon)	Europe	A	....	1	.	1	....	....	1	1	1	....
114.	Clarkia pulchella (Clarkia)	W. U. S.	A	1	....	....	1	....	....	....	..	....	....
115.	Cleome spinosa (Spider-flower)	Trop. Am.	B	....	1	....	1	....	....	....	.	....	...
116.	Clinopodium nepeta (Field Balm)	Europe	P	....	1	....	1	....	....	1	1	....	....
117.	Claytonia perfoliata (Spanish Lettuce)	W. U. S.	A	1	....	....	1	....	....	1	....	.	....
118.	Conium maculatum (Poison Hemlock)	Europe	B	....	....	1	....	....	1	1	1	....	....
119.	Conringia orientale (Erysimum)	Europe	A	1	....	....	1	....		1	....	....	....
120.	Convolvulus arvensis (Small Bindweed)	Europe	P	....	....	1	....	....	1	1	1	....	...

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121.	Convolvulus japonicus (Cottage-vine)	Asia	P		1		1				1		
122.	Crataegus oxycantha (Hawthorn)	Europe	P			1		1		1	1		
123.	Crepis biennis (Hawksbeard)	Europe	A	1			1			1	1		
124.	Crepis tectorum (Hawksbeard)	Europe	A	1			1			1			
125.	Croton capitatus (Croton)	S. W. U. S.	A	1			1				1		
126.	Cucurbita pepo (Pumpkin)	Unknown.	A		1		1			1	1	1	1
127.	Cucurbita pepo ovifera (Gourd)	Unknown.	A		1		1			1	1	1	1
128.	Cucurbita maxima (Squash)	Unknown.	A		1		1			1	1	1	1
129.	Cucumis melo (Muskmelon)	Asia	A		1		1			1	1		
130.	Cucumis sativus (Cucumber)	Asia	A		1		1			1	1		1
131.	Cuscuta epilinum (Dodder)	Europe	A		1		1			1	1		
132.	Cuscuta epithymum (Dodder)	Europe	A		1		1			1	1		1
133.	Cymbalaria cymbalaria (Kenilworth Ivy)	Europe	P		1		1			1			
134.	Cynanchium nigrum (Swallow-wort)	Europe	P	1			1			1			
135.	Cynoglossum officinale (Hound's-tongue)	Europe	B			1			1	1	1		
136.	Dactylis glomerata (Orchard Grass)	Europe	P			1			1	1	1	1	1
137.	Datura stramonium (Jimson-weed)	Asia	A			1			1	1	1	1	1
138.	Datura tatula (Jimson-weed)	Trop. Am.	A			1			1	1	1		1
139.	Daucus carota (Carrot)	Europe	B			1			1	1	1	1	1
140.	Delphinium ajacis (Larkspur)	Europe	A		1			1			1		
141.	Delphinium consolida (Larkspur)	Europe	A			1		1			1		1
142.	Dianthus armeria (Deptford Pink)	Europe	A		1		1				1		
143.	Dianthus barbatus (Pink)	Europe	P		1		1						
144.	Dianthus prolifer (Pink)	Europe	A		1		1				1		1

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145.	Digitalis purpurea (Foxglove)	Europe	B	1	....	....	1	....	....	1	....	....	....
146.	Digitalis lutea (Foxglove)	Europe	B	1	....	....	1	....	....	1	1	....	....
147.	Dipsacus sylvestris (Teasel)	Europe	B	....	....	1	....	....	1	1	1	....	....
148.	Draba verna (Whitlow Grass)	Europe	A	....	....	1	....	....	1	1	1	....	....
149.	Duchesnea indica (Indian Strawberry)	India.	P	....	1	.	1	..	....	....	1	....	....
150.	Dysodia papposa (Fetid Marigold)	S. W. U. S.	A	....	....	1	....	1	....	....	....	....	....
151.	Echium vulgare (Blueweed)	Europe	B	....	....	1	.	1	....	1	1	....	....
152.	Eclipta alba (Eclipta)	Trop. Am.	A	....	....	1	....	....	1	1	1	1	....
153.	Elatinoides elatine (Toadflax)	Europe	A	....	1	....	1	....		1	1	....	1
154.	Eleusine indica (Yard Grass)	Asia	A	....	....	1	....	....	1	1	1	1	1
155.	Eragrostis eragrostis (Eragrostis)	Europe	A	....	1	....	1	..	....	1	1	....	....
156.	Eragrostis major (Eragrostis)	Europe	A	....	....	1	....	....	1	1	1	....	....
157.	Eragrostis pilosa (Eragrostis)	Europe	A	....	1	....	1	....	....	1	1	1	1
158.	Erodium cicutarium (Alfilaria)	Europe	A	....	1	....	....	1	....	1	1	....	1
159.	Euphorbia cyparissias (Spurge)	Europe	P	..	....	1	....	....	1	1	1	....	....
160.	Euphorbia helioscopia (Spurge)	Europe	A	....	1	....	1	....	....	1	1	....	1
161.	Euphorbia marginata (Spurge)	S. W. U. S.	A	....	1	....	....	1	....	....	....	....	....
162.	Euphorbia peplus (Spurge)	Europe	A	....	....	1	....	1	....	1	1	....	1
163.	Euphorbia platyphylla (Spurge)	Europe	A	....	....	1	....	1	....	1	1	....	....
164.	Fagopyrum fagopyrum (Buckwheat)	Europe	A		....	1	.	1	....	1	1	....	....
165.	Festuca elatior (Fescue Grass)	Europe	P	....	....	1	....	....	1	1	1	1	....
166.	Festuca ovina (Fescue Grass)	Europe	P	....	....	1	..	....	1	1	1	1	....
167.	Eestuca ovina duriuscula	Europe.	*P	....	....	1	....	1	....	1	1	1	....
168	Ficaria ficaria (Crowfoot)	Europe.	P	1	....	....	1	....	....	1	1	....	....
169.	Foeniculum vulgare (Fennel)	Europe.	B	....	1	....	1	....	....	1	1	....	....
170.	Fumaria officinalis (Fumitory)	Europe.	A	....	1	....	1	....	....	1	1	....	1
171.	Galeopsis tetrahit (Hemp Nettle)	Europe.	A	....	1	....	1	....	....	1	1	....	....
172.	Galinsoga parviflora (Galinsoga)	Trop. Am.	A	....	....	1	....	1	....	1	1	....	1
173.	Galium aparine (Cleavers)	Europe.	A	....	..	1	....	....	1	1	1	1	1
174.	Galium verum (Cleavers)	Europe.	P	1	....	....	1	....	....	1	1	....	....
175.	Gaura parviflora (Gaura)	W. U. S.	A	1	..		1	....	....	....	....	....	....
176.	Geranium columbinum (Geranium)	Europe.	A	....	....	1	1	....	....	1	1	....	....
177.	Geranium dissectum (Geranium)	Europe.	A	....	....	1	1	....	....	1	1	....	1
178.	Geranium molle (Geranium)	Europe.	A	....	..	1	1	....	....	1	1	....	1
179.	Geranium pusillum (Geranium)	Europe.	A	....	....	1	1	....	....	1	1	....	....
180.	Geranium rotundifolium (Geranium)	Europe.	A	....	1	....	1	....	....	1	1	....	....

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181.	Gifolia germanica (Herba Impa)	Europe.	A	....	1	....	1	....	....	1	....	....	....
182.	Glechoma hederacea (Ground Ivy)	Europe.	P	....	....	1	....	....	1	1	1	....	....
183.	Gnaphalium uliginosum (Cudweed)	Europe.	A	....	....	1	....	1	....	1	1	....	....
184.	Grindelia squarrosa (Gum-plant)	S. W. U. S.	P	....	1	....	1	....	....	....	....	....	....
185.	Gutierrezia texana (Gutierrezia)	S. W. U. S.	A	1	....	....	1	....	....	....	....	....	....
186.	Helenium nudiflorum (Sneezeweed)	S. W. U. S.	P	....	1	....	1	....	....	....	....	....	....
187.	Helenium tenuifolium (Sneezeweed)	S. W. U. S.	A	1	....	....	1	....	....	....	....	....	....
188.	Helianthus annuus (Sunflower)	W. U. S.	A	....	1	....	....	1	....	1	....	....	....
189.	Heliotropium indicum (Heliotrope)	India.	A	1	....	....	1	....	....	....	1	1	....
190.	Hemerocallis fulva (Day Lily)	Europe.	P	....	....	1	....	1	....	1	1	....	....
191.	Hesperis matronalis (Dame's Rocket)	Europe.	A	....	1	....	1	....	....	1	1	....	....
192.	Hibiscus trionum (Bladder Ketmia)	Europe.	A	....	....	1	....	....	1	1	1	....	1
193.	Hieracium aurantiacum (Hawkweed)	Europe.	P	....	....	1	....	....	1	1	....	....	....
194.	Holcus lanantus (Velvet Grass)	Europe.	A	....	1	....	....	....	1	1	1	1	1
195.	Holosteum umbellatum (Chickweed)	Europe.	A	....	1	....	1	....	....	1	1	....	....
196.	Hordeum vulgare (Barley)	Europe.	A	....	1	....	....	1	....	1	1	....	....
197.	Hordeum jubatum (Barley)	N. W. U. S.	A	....	1	....	1	....	....	....	....	....	....
198.	Hyoscyamus niger (Black Henbane)	Europe.	*A	1	....	....	1	....	....	1	1	....	....
199.	Hypericum perforatum (St. John's-wort)	Europe.	P	....	....	1	....	....	1	1	1	....	....
200.	Iberis umbellata (Candytuft)	Europe.	P	....	1	....	1	....	....	1	....	....	....
201.	Inula helenium (Elecampane)	Europe.	P	....	....	1	....	....	1	1	1	....	....
202.	Ipomœa hederacea (Morning glory)	Trop. Am.	P	....	....	1	....	....	1	....	....	....	1
203.	Ipomœa purpurea (Morning Glory)	Trop. Am.	A	....	....	1	....	....	1	....	1	....	1
204.	Ixophorus glaucus (Foxtail)	Europe.	A	....	....	1	....	....	1	1	1	1	1

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205.	Ixophorus italicus (Italian Millet)	Europe	A	....	...	1	....	....	1	1	....	1	....
206.	Ixophorus italica germanica (Hungarian millet)	Europe	A	....	...	1	....	....	1	1	....	1	....
207.	Ixophorus verticillatus (Fox tail)	Europe	A	....	....	1	....	....	1	1	1	1	....
208.	Ixophorus viridis (Foxtail)	Europe	A	....	....	1	....	....	1	1	1	1	...
209.	Koniga maritima (Alyssum)	Europe	P	1	....	....	1	....	....	1	....	....	....
210.	Lactuca saligna (Willow Lettuce)	Europe	B	....	....	1	1	....	...	1	...	...	1
211.	Lactuca sativa (Garden Lettuce)	Europe	B	...	1	....	1	....	....	1	1	....	....
212.	Lactuca scariola (Prickly Lettuce)	Europe	*A	...	....	1	....	....	1	1	1	....	....
213.	Lamium album (Dead Nettle)	Europe	P	....	1	....	1		.	1	1	....	....
214.	Lamium amplexicaule (Dead Nettle)	Europe	A	....	..	1	....	...	1	1	1	....	....
215.	Lamium maculatum (Dead Nettle)	Europe	P	....	..	1	....	...	1	1	1	....	....
216.	Lamium purpureum (Dead Nettle)	Europe	A	....	....	1	....	....	1	1	1	....	....
217.	Lappula lappula (Stick-seed)	Europe	A	..	....	1	....	....	1	1	1	....	1
218.	Lapsana communis (Nipple-wort)	Europe	A		1	...	1	..	....	1	1	....	....
219.	Lavauxia triloba (Western Ev. Primrose)	W. U. S.	P	1	...	..	1	...	..	....	....	....	...
220.	Leontodon autumnalis (Fall Dandelion)	Europe	P	...	.	..	1	..	...	1	1	...	....
221.	Leonurus cardiaca (Motherwort)	Europe	P	...	...		...	...	1	1	1	...	....
222.	Lepidium campestre (Pepper-grass)	Europe	A	...	..	1	....	.	1	1	....	....	....
223.	Lepidium ruderale (Pepper-grass)	Europe	A	1	...	..	1	..	.	1	1	....	1
224.	Ligustrum vulgare (Privet)	Europe	P	..		.	....	..	1	1	1	....	....
225.	Lilium tigrinum (Tiger Lily)	India	P	1	....	....	1	...	...	...	1	....	....
226.	Linaria canadensis (Toad Flax)	Europe	P			1	....	....	1	1	1	...	1
227.	Linaria linaria (Butter-and-eggs)	Europe	P	...		1	....	....	1	1	1	....	1
228.	Linum usitatissimum (Flax)	Europe	A	...	...	.	...	...	1	1	1	1	1
229.	Lithospermum arvense (Gromwell)	Europe	A	...		.	...	...	1	1	1	....	1
230.	Lithospermum officinale (Gromwell)	Europe	P	....	1	.	1	...	...	1	1	1	....
231.	Lolium perenne (Darnel)	Europe	P	...	...	1	..	....	1	1	1	....	1
232.	Lolium temulentum (Darnel)	Europe	A	...	1		1	....	..	1	1	....	1
233.	Lonicera caprifolium (Italian Honeysuckle)	Europe	P	...	...	.	1	...	..	1	1	....	....
234.	Lonicera japonica (Chinese Honeysuckle)	Asia	P	..	1		1	...	...	....	1	....	....
235.	Lonicera tartarica (Bush Honeysuckle)	Asia	P	..	.	1	...	...	1	1	1	....	....
236.	Lonicera xylosteum (Fly Honeysuckle)	Europe	P	1	..	..	1	...	...	1	1	....	....
237.	Lotus americanus (Hosackia)	W. U. S.	A	1	...	..	1	...		....	....	....	....
238.	Lotus corniculatus (Horn Clover)	Europe	P	1	..		1	...	...	1	1	....	1
239.	Lunaria biennis (Common Honesty)	Europe	B	..	1	...	1	...	....	1	....	....	....
240.	Lychnis alba (White Campion)	Europe	†B	....	....	1	...	1	..	1	....	....	....

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241.	**Lychnis coronaria (Mullein Pink)**	Europe	†B	....	1	....	1	....	....	1	1	....	....
242.	**Lychnis dioica (Red Campion)**	Europe	B	....	1	....	1	....	....	1	1	....	....
243.	Lycium vulgare (Matrimony Vine)	Europe	P	....	....	1	....	....	1	1	1	....	1
244.	Lycopersicon lycopersicon (Tomato)	Trop. Am.	A	....	1	....	....	1	....	1	1	....	....
245.	Lycopsis arvensis (Bugloss)	Europe	A	....	1	....	1	....	....	1	1	....	....
246.	Lycopus europaeus (Gipsy-herb)	Europe	P	....	1	....	1	....	....	1	1	....	1
247.	Lysimachia nummularia (Money-wort)	Europe	P	....	....	1	....	....	1	1	....	....	....
248.	Malus malus (Apple)	Europe	P	....	....	1	....	....	1	1	1	....	....
249.	Malva moschata (Mallow)	Europe	P	....	1	....	....	1	....	1	....	....	....
250.	Malva rotundifolia (Mallow)	Europe	P	....	....	1	....	....	1	1	1	....	1
251.	Malva sylvestris (Mallow)	Europe	B	....	1	....	....	1	....	1	1	....	1
252.	Malva verticillata crispa (Mallow)	Europe	A	....	1	....	1	....	....	1	1	....	....
253.	Mariana mariana (Milk Thistle)	Europe	B	1	....	....	1	....	....	1	....	....	....
254.	Marrubium vulgare (Horehound)	Europe	P	....	....	1	....	....	1	1	1	....	1
255.	Martynia louisiana (Unicorn-plant)	S. U. S.	A	....	....	1	1	....	....	....	....	....	....
256.	Matricaria chamomilla (Chamomile)	Europe	A	....	1	....	1	....	....	1	1	....	....
257.	Matricaria matricarioides (Chamomile)	W. U. S.	A	....	1	....	1	....	....	1	1	....	....
258.	Matthiola annua (Ten-week stock)	Europe	A	....	1	....	1	....	....	1	....	....	....
259	Medicago denticulata (Medick)	Europe	A	....	1	....	1	....	....	1	1	....	1
260.	Medicago lupulina (Nonesuch)	Europe	†A	....	....	1	....	....	1	1	1	....	1
261.	**Medicago sativa (Alfalfa)**	Europe	P	....	....	1	....	....	1	1	1	....	1
262.	Melilotus alba (Sweet Clover)	Europe	P	....	....	1	....	....	1	1	1	....	1
263.	**Melilotus officinalis (Sweet Clover)**	Europe	P	....	....	1	....	....	1	1	....	....	1
264.	**Melissa officinalis (Lemon Balm)**	Europe	P	....	....	1	....	....	1	1	1	....	1

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265.	**Mentha alopecuroides (Woolly Mint)**	Europe	P		1		1			1		
266.	**Mentha aquatica (Water Mint)**	Europe	P		1		1			1	1	
267.	**Mentha arvensis (Corn Mint)**	Europe	P		1		1			1	1	
268.	Mentha longifolia (Long-leaf Mint)	Europe	P		1		1			1		
269.	Mentha piperita (Peppermint)	Europe	P			1			1	1	1	
270.	Mentha sativa (Whorled Mint)	Europe	P		1		1			1	1	
271.	Mentha spicata (Spear Mint)	Europe	P			1			1	1	1	
272.	Mollugo verticillata (Carpet-weed)	S. W. U. S.	A			1			1		1	
273.	Morus alba (White Mulberry)	Europe	P		1			1		1	1	1
274.	Muscari botryoides (Grape Hyacinth)	Europe	P		1		1			1	1	
275.	Myosotis palustris (Forget-me-not)	Europe	P		1		1			1	1	
276.	Nepeta cataria (Catnip)	Europe	P			1			1	1	1	
277.	Nicotiana rustica (Wild Tobacco)	Unknown.	A		1		1			1	1	1
278.	Nicotiana tabacum (Tobacco)	S. Amer.	A		1		1			1	1	1
279.	Nigella damascena (Ragged Lady)	Europe	A		1		1			1		
280.	Onopordon acanthium (Scotch Thistle)	Europe	B		1		1			1	1	
281.	Opuntia humifusa (Cactus)	W. U. S.	P		1		1					
282.	Origanum vulgare (Marjorum)	Europe	P		1		1			1	1	
283.	Ornithogalum umbellatum (Star of Bethlehem)	Europe	P		1			1		1	1	1
284.	Oxalis corniculata (Sorrel)	S. W. U. S.	†A		1		1			1	1	1
285.	Panicum crus-galli (Cock-spur Grass)	Europe	A			1			1	1	1	1
286.	Papaver dubium (Poppy)	Europe	A		1		1			1	1	
287.	Papaver rhoeas (Poppy)	Europe	A		1		1			1	1	1
288.	Papaver somniferum (Poppy)	Europe	A		1		1			1	1	
289.	Parthenium hysterophorus (Parthenium)	S. W. U. S.	A		1		1					
290.	Pastinaca sativa (Parsnip)	Europe	B			1			1	1	1	
291.	Petunia violacea (Petunia)	S. Amer.	†A		1		1					
292.	Phalaris canariensis (Canary Grass)	Europe	A		1				1	1	1	1
293.	Philadelphus coronarius (Mock Orange)	Europe	P		1		1			1	1	
294.	Philadelphus inodorus (Mock Orange)	Europe	P		1		1			1		
295.	Phleum pratense (Timothy)	Europe	P			1			1	1	1	1
296.	Physalodes physalodes (Apple of Peru)	S. Amer.	A			1		1			1	1
297.	Pimpinella saxifraga (Bennet)	Europe	P	1			1			1	1	
298.	Plantago arenaria (Plantain)	Europe	A	1			1			1	1	
299.	Plantago aristata (Plantain)	W. U. S.	A			1			1			
300.	Plantago lanceolata (Rib-grass)	Europe	P			1			1	1	1	

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301.	Plantago major (Plantain)	Europe	P	....	....	1	....	....	1	1	1	1	1
302.	Poa annua (Annual June Grass)	Asia	A	....	....	1	....	....	1	1	1	1	1
303.	Poa compressa (Wire Grass)	Europe	P	....	....	1	....	....	1	1	1	....	....
304.	Poa trivialis (Meadow Grass)	Europe	P	....	....	1	....	1	....	1	1	1	....
305.	Polygonum convolvulus (Bind-weed)	Europe	A	....	....	1	....	....	1	1	1	....	1
306.	Polygonum lapathifolium (Knot-weed)	Europe	A	....	....	1	....	....	1	1	1	....	1
307.	Polygonum lapathifolium nodosum	Europe	A	....	....	1	1	....	....	1	1	....	....
308.	Polygonum orientale (Knot-weed)	India	A	....	....	1	....	....	1	....	1	....	1
309.	Polygonum persicaria (Knot-weed)	Europe	A	....	....	1	....	....	1	1	1	....	....
310.	Polygonum zuccarinii (Knot-weed)	Asia	P	1	....	....	1	....	....	....	1	....	....
311.	Populus alba (Silver Poplar)	Europe	P	....	....	1	....	1	....	1	1	....	....
312.	Populus dilatata (Lombardy Poplar)	Europe	P	....	1	....	....	1	....	1	1	....	....
313.	Portulaca oleracea (Purslane)	S. W. U. S.	A	....	....	1	....	....	1	1	1	1	1
314.	Potentilla recta (Cinquefoil)	Europe	P	....	....	1	....	1	....	1	1	....	....
315.	Prunella vulgaris (Selfheal)	Europe	P	....	....	1	....	....	1	1	1	....	1
316.	Prunus angustifolia (Plum)	S. W. U. S.	P	....	1	....	1	....	....	....	....	....	....
317.	Prunus avium (Sweet Cherry)	Europe	P	....	....	1	....	1	....	1	....	....	....
318.	Prunus cerasus (Sour Cherry)	Europe	P	....	1	....	1	....	....	1	1	....	....
319.	Quamoclit coccinea (Morning Glory)	Trop. Am.	A	....	....	1	....	1	....	....	....	....	....
320.	Quamoclit quamoclit (Cypress Vine)	Trop. Am.	A	....	1	....	1	....	....	....	....	....	....
321.	Ranunculus acris (Buttercups)	Europe	†A	....	....	1	....	....	1	1	1	....	1
322.	Ranunculus arvensis (Crowfoot)	Europe	A	1	....	....	1	....	....	1	1	....	....
323	Ranunculus bulbosus (Crowfoot)	Europe	P	....	....	1	....	1	....	1	1	....	....
324.	Ranunculus repens (Crowfoot)	Europe	P	....	1	....	1	....	....	1	1	....	....

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325.	Raphanus raphanistrum (Radish)	Europe	†A	....	1	....	1	....	....	1	1	....	1
326.	Raphanus sativus (Radish)	Europe	B	....	1	....	....	1	....	1	1	1	....
327.	Ratibida columnaris (Coneflower)	W. U. S.	P	1	....	....	1	....	....	....	....	....	....
328.	Reseda alba (Mignonette)	Europe	†A	....	1	....	1	....	....	1	....	....	....
329.	Reseda lutea (Mignonette)	Europe	†A	....	1	....	1	....	....	1	1	....	....
330.	Reseda luteola (Mignonette)	Europe	A	....	1	....	1	....	....	1	1	....	1
331.	Rhamnus catharticus (Buck thorn)	Europe	P	....	1	....	1	....	....	1	1	....	....
332.	Ribes aureum (Golden Currant)	W. U. S.	P	....	1	....	1	....	....	....	....	....	....
333.	Ribes rubrum (Red Currant)	Europe	P	....	1	....	....	1	....	1	1	....	....
334.	Ricinus communis (Castor-bean)	Africa	A	....	1	....	1	....	....	....	1	1	....
335.	Robinia hispida (Locust)	S. U. S.	P	....	1	....	....	1	....	1	....	....	....
336.	Robinia pseudacacia (Locust)	S. U. S.	P	....	....	1	....	....	1	1	....	....	....
337.	Robinia visdosa (Locust)	S. U. S.	P	....	1	....	....	1	....	....	....	....	....
338.	Roripa armoracia (Horse-radish)	Europe	P	....	....	1	....	....	1	1	....	....	....
339.	Roripa nasturtium (Water Cress)	Europe	P	....	....	1	....	....	1	1	1	1	1
340.	Roripa sylvestris (Water Cress)	Europe	A	....	....	1	....	....	1	1	1	....	....
341.	Rosa canina (Dog Rose)	Europe	P	....	....	1	....	1	....	1	1	....	....
342.	Rosa cinnamomea (Rose)	Europe	P	....	1	....	1	....	....	1	....	....	....
343.	Rosa rubiginosa (Sweet-brier)	Europe	P	....	....	1	....	....	1	1	1	....	1
344	Rudbeckia hirta (Rudbeckia)	W. U. S.	P	....	....	1	....	....	1	1	....	....	....
345.	Rumex acetosella (Dock)	Europe	P	....	....	1	....	....	1	1	1	....	1
346.	Rumex conglomeratus (Dock)	Europe	P	....	....	1	....	1	....	1	1	....	1
347.	Rumex crispus (Dock)	Europe	P	....	....	1	....	....	1	1	1	....	1
348.	Rumex obtusifolius (Dock)	Europe	P	....	....	1	....	....	1	1	1	....	....
349.	Rumex patientia (Dock)	Europe	P	....	1	....	1	....	....	1	1	....	....
350.	Rumex sanguineus (Dock)	Europe	P	....	....	1	....	1	....	1	1	....	....
351.	Salix alba (European Willow)	Europe	P	....	....	1	1	....	....	1	1	....	....
352.	Salix alba coerulea (Willow)	Europe	P	....	1	....	1	....	....	1	....	....	....
353.	Salix alba vitellina (Willow)	Europe	P	....	....	1	....	....	1	1	....	....	....
354.	Salix babylonica (Weeping Willow)	Asia	P	....	....	1	....	1	....	1	1	....	1
355.	Salix fragilis (Crack Willow)	Europe	P	....	....	1	....	....	1	1	1	....	....
356.	Salix purpurea (Purple Willow)	Europe	P	....	....	1	....	....	1	1	1	....	....
357.	Salsola tragus (Russian Thistle)	Asia	A	....	....	1	....	1	....	1	1	....	....
358.	Salvia verbenaca (Wild Sage)	Europe	P	1	....	....	1	....	....	1	1	....	....
359.	Sanguisorba sanguisorba (Burnet)	Europe	P	....	1	....	1	....	....	1	....	....	....
360.	Saponaria officinalis (Bouncing Bet)	Europe	P	....	....	1	....	....	1	1	1	....	....

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361. Satureia hortensis (Savory)	Europe	A	1	....	....	1	....	....	1	....	....	....
362. Scleranthus annuus (German Knotgrass)	Europe	A	....	1	....	1	....	....	1	1	....	....
363. Secale cereale (Rye)	Asia	A	....	1	....	....	1	....	1	1	1	....
364. Sedum acre (Mossy Stone-crop)	Europe	P	....	1	....	1	....	....	1	1	....	....
365. Sedum telephium (Orpine)	Europe	P	....	....	1	1	....	....	1	1	....	....
366. Senecio vulgaris (Groundsel)	Europe	A	....	1	....	1	....	....	1	1	....	1
367. Sherardia arvensis (Spurwort)	Europe	A	1	....	....	1	....	....	1	1	....	....
368. Sida spinosa (Sida)	Tropics	A	....	....	1	....	....	1	....	1	1	1
369. Silene armeria (Sweet William)	Europe	A	....	1	....	1	....	....	1	1	....	....
370. Silene conica (Catchfly)	Europe	A	....	1	....	1	....	....	1	1	....	....
371. Silene dichotoma (Catchfly)	Europe	A	....	1	....	1	....	....	1	1	....	....
372. Silene noctiflora (Catchfly)	Europe	A	....	....	1	....	....	1	1	1	....	....
373. Silene vulgaris (Campion)	Europe	P	....	1	....	1	....	....	1	1	....	....
374. Sinapis alba (White Mustard)	Europe	A	....	....	1	....	....	1	1	1	....	....
375. Sisymbrium officinale (Hedge Mustard)	Europe	A	....	....	1	....	....	1	1	1	....	1
376. Solanum dulcamara (Bittersweet)	Europe	P	....	....	1	....	....	1	1	1	....	....
377. Solanum elaeagnifolium (Nightshade)	W. U. S.	P	1	....	....	1	....	....	....	....	....	....
378. Solanum rostratum (Buffalo-bur)	W. U. S.	A	....	....	1	....	1	....	....	....	....	....
379. Solanum tuberosum (Potato)	S. Amer.	P	....	1	....	1	....	....	1	....	....	....
380. Sonchus arvensis (Sow Thistle)	Europe	B	....	....	1	....	....	1	1	1	....	1
381. Sonchus asper (Sow Thistle)	Europe	B	....	....	1	....	....	1	1	1	1	1
382. Sonchus oleraceus (Sow Thistle)	Europe	B	....	....	1	....	....	1	1	1	1	1
383. Sorghum halapense (Johnson Grass)	Asia	P	....	1	....	1	....	....	1	1	....	1
384. Sorghum vulgare (Sorghum)	Africa	A	....	1	....	1	....	....	....	....	1	....

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385.	Spergula arvensis (Corn Spurry)	Europe	A	....	1	....	1	....	..	1	1	....	1
386.	Spinacia oleracea (Spinage)	Europe	*A	....	1	....	1	....	...	1	1	....	....
387.	Spiraea corymbosa (Spiraea)	S. U. S.	P	....	1	....	....	1	..	1	....	....	....
388.	Spiraea prunifolia (Bridal-wreath)	Asia	P	....	1	....	1	....	....	....	1	..	....
389.	Spiraea sorbifolia (Spiraea)	Asia	P	...	1	....	1	....	....	...	1	....	....
390.	Symphytum officinale (Comfrey)	Europe	P	....	1	....	1	....	..	1	1	....	....
391.	Syntherisma linearis (Crab-grass)	Europe	A	....	....	1	....	1	....	1	1	1	....
392.	Syntherisma sanguinalis (Crab-grass)	Europe	A	....	....	1	....	....	1	1	1	1	....
393.	Syringa vulgaris (Lilac)	Europe	P	....	1	....	1	....	....	1	1	....	....
394.	Tanacetum vulgare (Tansy)	Europe	P	....	....	1	....	....	1	1	1	....	1
395.	Taraxacum erythrospermum (Dandelion)	Europe	P	....	....	1	....		1	1	...	....	....
396.	Taraxacum taraxacum (Dandelion)	Europe	P	....	....	1	....	....	1	1	1	....	1
397.	Thlaspi arvensis (Penny-cress)	Europe	A	....	....	1	....	1	...	1	1	....	....
398.	Thymus serpyllum (Thyme)	Europe	P	....	1	....	1	....	....	1	1	....	....
399.	Tissa rubra (Sandspur)	Europe	*A	....	1	....	1	...	....	1	1	....	....
400.	Toxylon pomiferum (Osage-orange)	S. W. U. S.	P	....	1	....	....	1	....	....	....	....	....
401.	Tragopogon porrifolius (Salsify)	Europe	B	....	....	1	....	....	1	1	....	....	1
402.	Tragopogon pratensis (Goat's Beard)	Europe	B	....	....	1	....	1	....	1	1	....	....
403.	Trifolium agrarium (Hop Clover)	Europe	A	....	1	....	....	1	....	1	....	....	1
404.	Trifolium arvense (Rabbit-foot Clover)	Europe	A	....	....	1	....	....	1	1	1	..	1
405.	Trifolium hybridum (Alsike Clover)	Europe	P	....	....	1	....	....	1	1	....	....	....
406.	Trifolium incarnatum (Crimson Clover)	Europe	*A	....	1	....	....	1	....	1	....	....	....
407.	Trifolium pratense (Red Clover)	Europe	P	....	....	1	....	....	1	1	1	..	1
408.	Trifolium procumbens (Hop Clover)	Europe	A	....	....	1	....	....	1	1	1	....	1
409.	Trifolium repens (White Clover)	Europe	P	...	....	1	....	....	1	1	1	....	1
410.	Triticum vulgare (Wheat)	Asia	A	....	1	....	....	1	....	1	1	...	1
411.	Tussilago farfara (Colt's-foot)	Europe	P	....	1	....	1	....	....	1	1	....	....
412.	Urtica dioica (Nettle)	Europe	P	....	1	....	1	....	....	1	1	....	1
413.	Vaccaria vaccaria (Cowherb)	Europe	A	....	1	...	1	....	....	1	1	....	1
414.	Valerianella locusta (Corn Salad)	Europe	A	....	1	....	1	....	...	1	1	....	....
415.	Verbascum blattaria (Moth Mullein)	Europe	B	....	....	1	....	....	1	1	1	....	1
416	Verbascum thapsus (Mullein)	Europe	B	....	....	1	....	....	1	1	1	....	1
417.	Verbena canadensis (Verbena)	S. W. U. S.	P	....	1	....	1	....	...	....		....	....
418.	Veronica agrestis (Speedwell)	Europe	A	....	..	1	....	....	1	1	1	....	....
419.	Veronica arvensis (Speedwell)	Europe	A	....	....	1	....	...	1	1	1	....	....
420.	Veronica byzantina (Speedwell)	Europe	A	....	....	1	....	...	1	1	1	....	....

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421. Veronica hederifolia (Speedwell)	Europe	A	....	1	....	1	....	....	1	1	....	....
422. Veronica teucrium (Speedwell)	Europe	A	1	....	....	1	....	....	1	....	....	....
423. Vicia hirsuta (Vetch)	Europe	A	....	....	1	1	....	....	1	1	....	1
424. Vicia sativa (Vetch)	Europe	A	....	....	1	....	1	....	1	1	....	....
425. Vinca minor (Periwinkle)	Europe	P	....	....	1	....	....	1	1	..	....	...
426. Viola tricolor (Pansy)	Europe	A	....	1	....	1	...	...	1	1	....	....
427. Xanthium spinosum (Cocklebur)	Trop. Am.	A	....	....	1	...	1	...	1	1	....	1
428. Xanthium strumarium (Cocklebur)	Europe	A	....	....	1	....	1	....	1	1	....	1
429. Yucca filamentosa (Adam's Needle)	W. U. S.	P	....	1	....	1	....	..	....	...	....	...
430. Zea mays (Maize)	Trop. Am.	A	....	1		...	1		1	1	1	...

* Also biennial. † Also perennial.

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INDEX TO COMMON NAMES.

[The figures after names refer to the serial No. in the preceding Tabulation.]

Adam's Needle, 429.
Ailanthus, 10.
Ajuga, 11.
Alfalfa, 261.
Alfilaria, 158.
Alyssum, 22, 209.
Amaranth, 23-28.
Apple, 248.
Apple of Peru, 296.
Asparagus, 55.

Balloonvine, 86.
Barberry, 62.
Barley, 196-7.
Bellflower, 83.
Bennet, 297.
Bent-grass, 9.
Bermuda Grass, 85.
Bindweed, 120, 305.
Bittersweet, 376.
Black Henbane, 198.
Bladder Ketmia, 192.
Blessed Thistle, 94.
Blue Bottle, 95.
Blueweed, 151.
Borage, 63.
Bouncing Bet, 360.
Bridal Wreath, 338.
Brome Grass, 69-71.
Buckthorn, 331.
Buckwheat, 164.
Buffalo Bur, 378.
Bugloss, 245.
Burdock, 42-4.
Burnet, 359.
Butter-and-Eggs, 227.
Buttercups, 321.

Cactus, 281
Campion, 240, 242, 373.
Canada Thistle, 87.
Candytuft, 200.
Canary Grass, 292.
Caraway, 90.
Carpet-weed, 272.
Carrot, 139.
Castor Bean, 331.
Catalpa, 91-2
Catchfly, 370-2.
Catnip, 276.
Celendine, 100.
Chamomile, 33-6, 256.
Charlock, 64.
Cherry, 317-8.
Chess, 70-5.
Chickweed, 19, 20, 98-9, 195.
China Aster, 81.
Cinquefoil, 314.
Clarkia, 114.
Cleavers, 173-4.
Clover, 404-9
Cocklebur, 427-8.
Cockspur Grass, 285.
Colt's-foot, 411.
Columbine, 41.
Comfrey, 390.
Coneflower, 327.
Corn, 430.
Corn Cockle, 8.
Corn Salad, 414.
Corn Sperry, 385.
Costmary, 109.
Cottage-vine, 121.
Couch-grass, 7.
Cowherb, 413.
Crabgrass, 391-2.
Croton, 125.
Crowfoot, 322-4.
Cucumber, 130.
Cudweed, 183.
Currant, 332-3.
Cypress Vine, 320.

Daisy, 61.
Dame's Rocket, 191.
Dandelion, 395-6.
Darnel, 231-2.
Day Lily, 190.
Dead Nettle, 213-6.
Deptford Pink, 142.
Dock, 345-50.
Dodder, 131-2.
Dog Fennel, 34.
Dog Rose, 341.

Eclipta, 152.
Elecampane, 112.
Eragrostis, 155-7.
Erysimum, 119.

Fall Dandelion, 220.
False Flax, 82.
Fennel, 169.
Fescue Grass, 165-6.
Fetid Marigold, 150.
Feverfew, 111.
Field Balm, 116.
Flax, 228.
Fool's Parsley, 5.
Forget-me-not, 275.
Foxglove, 145-6.
Fox tail, 17, 204, 207-8.
Fumitory, 170.

Galinsoga, 172.
Gaura, 175.
Geranium, 176-80.
Gipsy-herb, 246.
Goat's-beard, 402
Golden Currant, 332.
Goosefoot, 102-8.
Gourd, 127.
Gout-weed, 3.
Grape Hyacinth, 274.
Gromwell, 229-30.
Groundsel, 366
Ground Ivy, 182.
Gum-plant, 184.

Gutierezia, 185.
Hawksbeard, 123-4.
Hawkweed, 193.
Hawthorn, 122.
Hedge Garlic, 12
Hedge Parsley, 93.
Heliotrope, 189.
Hemp, 84.
Hemp Nettle, 171.
Herba Impia, 181.
Hollyhock, 21.
Honesty, 239.
Honeysuckle, 233-6.
Hop Clover, 403.
Horehound, 254.
Horn Clover, 2 8.
Horse Chestnut, 4.
Horse Radish, 338.
Hosackia, 237.
Hound's-tongue, 135.

Indian Strawberry, 149.

Jimson-weed, 137-8.
Johnson Grass, 383.
June Grass, 392.

Kenilworth Ivy, 133.
Knapweed, 96-7.
Knotgrass, 362.
Knotweed, 306-10.

Lambsquarter, 101.
Larkspur, 140-1.
Lemon Balm, 264.
Lettuce, 210-11.
Lilac, 393.
Lily, 190, 225.
Locust, 335-7.

Maize, 430.
Mallow, 249-52.
Marigold, 79.
Marjorum, 282.
Matrimony Vine, 243.
Meadow Foxtail, 18.
Meadow Grass, 304.
Medick, 259.
Mexican Poppy, 46.
Mignonette, 328-30.
Milk Thistle, 253.
Millet, 205-6.
Mint, 265-8.
Mock Orange, 293-4
Moneywort, 247.
Morning Glory, 202-3, 319.
Motherwort, 221.
Mugwort, 54.
Mullein, 415-6.
Mullein Pink, 241.
Musk Melon, 129.
Mustard, 66-8, 374-5.

Nettle, 412.
Nightshade, 377.
Nipplewort, 218.
Nonesuch, 260.

Oatgrass, 47.
Oats, 58.
Onion, 15-6.
Orache, 56.
Orchard Grass, 136.
Orpine, 365.
Osage Orange, 400.
Oxeye Daisy, 110.

Pansy, 426.
Paper Mulberry, 76.
Parsley, 40.
Parsnip, 290.

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Parthenium, 289.
Peach, 31.
Penny Cress, 397.
Pepper-grass, 222-3.
Peppermint, 269.
Periwinkle, 425.
Petunia, 291.
Pimpernel, 32.
Pink, 143-4.
Plantain, 298-9, 301.
Plum, 316.
Poison Hemlock, 118.
Poplar, 311-2.
Poppy, 286-8.
Potato, 379.
Prickly Lettuce, 212.
Primrose, 219.
Privet, 224.
Pumpkin, 126.
Purslane, 313.

Radish, 325-6.
Ragged Lady, 279.
Rape, 67.
Rib-grass, 300.
Rose, 342.
Rudbeckia, 344.
Russian Thistle, 357.
Rye, 363.

Sage, 358.
Salsify, 401.
Sandspur, 399.
Sandwort, 45.
Savory, 361.
Scotch Thistle, 280.
Sedge, 89.
Self Heal, 315.
Shepherd's-purse, 78.
Sida, 368.
Snapdragon, 39.
Sneezeweed, 186-7.
Sorghum, 384.
Sorrel, 284.
Sow Thistle, 380-2.
Spanish Lettuce, 117.
Spear Mint, 271.
Speedwell, 418-22.
Spider-flower, 115.
Spinach, 386.
Spiraea, 387-9.
Spurge, 159-63.
Spurwort, 367.
Squash, 128.
Star of Bethlehem, 283.
Stickseed, 217.
St. John's-wort, 199.
Stonecrop, 364.
Sunflower, 188.
Swallow-wort, 134.
Sweetbrier, 343.
Sweet Clover, 262-3.
Sweet William, 369.

Tansy, 394.
Teasel, 147.
Tenweek-stock, 258.
Thorough-wax, 77.
Thistle, 87-8.
Thyme, 398.
Tiger Lily, 225.
Timothy, 295.
Toad Flax, 153, 226.
Tobacco, 278.
Tomato, 244.
Turnip, 65.

Umbrella-wort, 13-4.
Unicorn-plant, 255.

Velvet-grass, 194.
Velvet-leaf, 1.
Verbena, 417.
Vernal Grass, 37.
Vetch, 423-4.

Water Cress, 339-40.
Watermelon, 113.
Western Ragweed, 29.
Wheat, 410.
Wheat-grass, 6.
White Mulberry, 273.
Whitlow-grass, 148.
Whorled Mint, 270.
Wild Oat, 57.
Wild Sage, 358.
Wild Tobacco, 277.
Willow, 351-6.
Winter Cress, 59-60.
Wire Grass, 303.
Wormwood, 48-53.

Yard Grass, 154.
Yarrow, 2.

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